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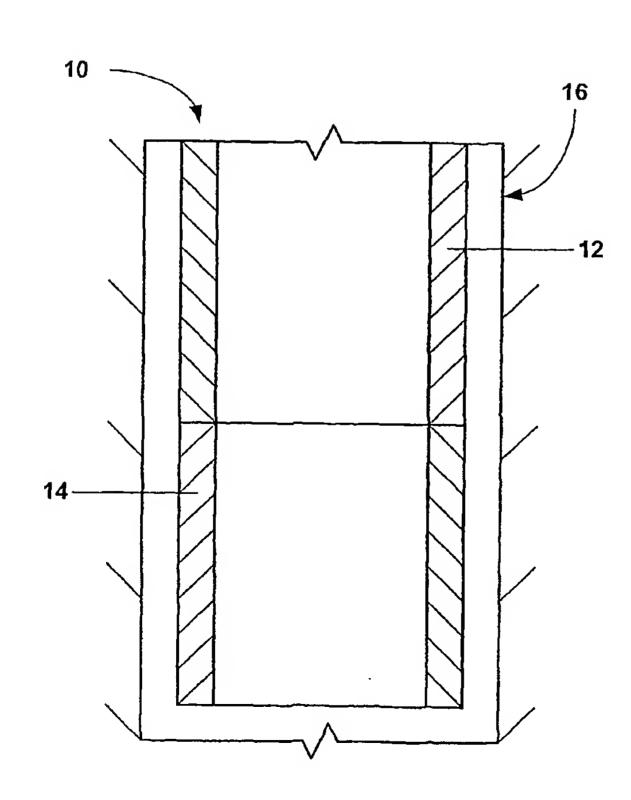
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[Continued on next page]

(54) Title: METHOD OF MANUFACTURING A TUBULAR MEMBER



(57) Abstract: A method of manufacturing a tubular member.

<u>18</u>

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Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 28 September 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/28819

A. CLASSIFICATION OF SUBJECT MATTER IPC: E21B 23/00(2006.01),17/00(2006.01);C21D 9/08(2006.01)						
USPC: 166/380,382,207,242.1;148/593 According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIEL	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/380, 382, 207, 242.1; 148/593						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched.						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	appropriate,	of the relevant passages	Relevant to claim No.		
X, E	US 2005/0217768 A1 (ASAHI et al) 06 October 20	-		1-23		
x	in particular Paragraphs [0005], [0052]-[0078], [0090]-[0113], and Tables 1-3). US 6,543,552 B1 (METCALFE et al) 08 April 2003 (08/04/2003), see tubular member 18 having one or more intermediate characteristics in Figures 1-5 and one or more final characteristics in Figures 6-7.					
Α	US 3,785,193 A (KINLEY et al) 15 January 1974 (15/01/1974), see figures 1-3.			1-7		
				-		
Further	documents are listed in the continuation of Box C.		See patent family annex.			
◆ St	pecial categories of cited documents:	"T"	tater document published after the interdate and not in conflict with the applica			
	document defining the general state of the art which is not considered to be of particular relevance		the principle or theory underlying the i	nvention		
"E" earlier app date	olication or patent published on or after the international filing	"X"	document of particular relevance; the considered novel or cannot be consider step when the document is taken alone	ed to involve an inventive		
	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	-Y-	document of particular relevance; the considered to involve an inventive step combined with one or more other such being obvious to a person skilled in the	when the document is documents, such combination		
"O" document	referring to an oral disclosure, use, exhibition or other means	*&*	document member of the same patent fi	amily		
	P" document published prior to the international filing date but later than the		<u> </u>			
Date of the actual completion of the international search 30 April 2006 (30.04.2006)		Date of mailing of the international search report 0 3 AUG 2006				
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Mail Stop PCT, Attn: ISA/US			X (XXI			
Commissioner of Patents P.O. Box 1450			Hoang Dang			
, ,			No. 571-272-3600			
Facsimile No.	Facsimile No. (571) 273-3201					

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/28819

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
2. Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requiren such an extent that no meaningful international search can be carried out, specifically:	ients to			
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of 6.4(a).	Rule			
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet				
As all required additional search fees were timely paid by the applicant, this international search report consearchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did no payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search fees were paid, specifically claims Nos.:	t invite			
4. No required additional search fees were timely paid by the applicant. Consequently, this international sear restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	ch report is			

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INTERNATIONAL SEARCH REPORT					
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BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.					
Group I, claim(s) 1-7, drawn to a method of manufacturing a tubular member.					
Group II, claim(s) 8-23, drawn to a method of manufacturing an expandable tubular member.					
The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of the claims of Group I is the intermediate characteristics of the tubular member when it is positioned within a preexisting structure where it is processed into its final characteristics. The special technical feature of the claims of Group II is the quenching of the tubular member after heat treating so that the tubular member comprises a microstructure comprising a hard phase and a soft phase. The inventions of Groups I and II lack unity because they depend on different technical features.					
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